

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Previously Presented): A device for regulating the temperature of a heating wire, the device comprising:

an electronic switch connected in series with the heating wire,

means for controlling the electronic switch,

wherein the device also comprises means for controlling a switching time of the electronic switch; and

wherein the control means for controlling a switch time of the electric switch control a voltage across terminals of the switch as a function of a setpoint voltage defining the switching time.

2. (Previously Presented): The device as claimed in claim 1, comprising: means for measuring a temperature of the heating wire, wherein the control means turn the electronic switch on and off as a function of the temperature of the heating wire.

3. (Previously Presented): The device as claimed in claim 2, wherein the means for measuring the temperature of the heating wire comprise means for comparing a voltage present at a common point between the electronic switch and the heating wire with a reference voltage.

4. (Previously Presented): The device as claimed in claim 1, wherein the control means define a switching time that is longer than a normal switching time of the electronic switch taken in isolation.

5. (Previously Presented): The device as claimed in claim 1, wherein the control means comprise an operational amplifier, whereof a first input is connected to a common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint

voltage and whereof an output controls a turning-on and a turning-off of the electronic switch.

6. (Previously Presented): The device as claimed in claim 2, wherein the control means define a switching time longer than a normal switching time of the electronic switch taken in isolation.

7. (Previously Presented): The device as claimed in claim 3, wherein the control means define a switching time longer than a normal switching time of the electronic switch taken in isolation.

8. (Previously Presented): The device as claimed in claim 2, wherein the control means comprise an operational amplifier, whereof a first input is connected to a common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof an output controls the turning-on and the turning-off of the electronic switch.

9. (Previously Presented): The device as claimed in claim 3, wherein the control means comprise an operational amplifier, whereof a first input is connected to the common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof an output controls the turning-on and the turning-off of the electronic switch.

10. (Previously Presented): The device as claimed in claim 4, wherein the control means comprise an operational amplifier, whereof a first input is connected to a common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof an output controls the turning-on and the turning-off of the electronic switch.